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Henning Maaß

 September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: pdf(1.59 MB)

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**Keywords:** LDAP, X.500, adaptive applications, directory services, distributed systems, locating systems, location-aware applications, middleware, mobile computing, software architectures, wireless multimedia networks

### 2 [Location-aware mobile applications based on directory services](#)

Henning Maass

 August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Full text available: pdf(421.47 KB)

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Location-aware applications are becoming increasingly attractive due to the widespread dissemination of wireless networks and the emergence of small and cheap locating technologies. We developed a location information server that simplifies and speeds up the development of these applications by offering a set of generic location retrieval and notification services to the application. The data model and the access protocols of these services are based on the X.500 directory service and the I ...

### 3 [Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining](#)

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

 May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

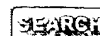
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Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to


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Fabián E. Bustamante, Patrick Widener, Karsten Schwan

 November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

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Common to computational grids and pervasive computing is the need for an expressive, efficient, and scalable directory service that provides information about objects in the environment. We argue that a directory interface that 'pushes' information to clients about changes to objects can significantly improve scalability. This paper describes the design, implementation, and evaluation of the Proactive Directory Service (PDS). PDS' interface supports a customizable 'proactive' mode through which ...


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A. Lyman Chapin

 April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2

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### 3 [Distributed systems - programming and management: The role of directory services in network management](#)

James W. Hong, Michael A. Bauer, J. Michael Bennett

 November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**


 Full text available: [pdf\(816.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, the potential role and feasibility of the X.500 Directory Service within the CORDS management services is studied. A simple network monitoring application was adapted to use a prototype X.500 Directory Service for (1) device information, (2) application information, and (3) for compiling summary information on network load. This study is a first step towards the understanding of the possible role of the Directory Service in the management of distributed systems and applications. T ...

### 4 [Semantic file systems](#)

David K. Gifford, Pierre Jouvelot, Mark A. Sheldon, James W. O'Toole

 September 1991 **ACM SIGOPS Operating Systems Review, Proceedings of the thirteenth ACM symposium on Operating systems principles**, Volume 25 Issue 5


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... **services** such as **Service** Tasmania and the whole-of-government x.500 **directory**

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This leads directly to the conclusion that demand **aggregation** is the only strategy

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[Solving NAMES within X.500 - Afifi, Huitema \(1992\)](#) (Correct)

or the whole subtree under it. The **directory service interface** provides two other access operations,  
<ftp.inria.fr/INRIA/publication/publi-ps-gz/RR/RR-1633.ps.gz>

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[ATM Name System Specification Version 1.0 - Forum \(1996\)](#) (Correct)

8. Atm Directory Service

<ftp.atmforum.com/pub/approved-specs/af-saa-0069.000.ps>

[Fourth Edition \(March 1999\) - This Edition Sc](#) (Correct)

13 The X/Open **Directory Service Interface** .

<ftp.s390.ibm.com/ftp/books/os390/pdf/euvmra10.pdf>

[Group Management Services for Distributed Multimedia.. - Silvester Namuye](#) (Correct)

and database module. At the moment, the **directory service interface** is strongly coupled to the INGRES  
<ftp.comp.lancs.ac.uk/pub/mpg/MPG-96-04.ps.Z>

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such as cluster management systems, **directory services**, and event notification services, either do rapid updates and providing on-the-fly attribute **aggregation**. This latter capability permits an application mobile code based on the SQL query language for **aggregation**. This protocol gives rise to a novel [www.cs.cornell.edu/Info/Projects/Spinglass/public\\_pdfs/Astrolabe.pdf](http://www.cs.cornell.edu/Info/Projects/Spinglass/public_pdfs/Astrolabe.pdf)

[Astrolabe: A Robust and Scalable Technology For Distributed .. - van Renesse, Birman \(2001\) \(Correct\) \(40 citations\)](#)

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[DataSpace: Querying and Monitoring Deeply Networked.. - Imielinski, Goel \(2000\) \(Correct\) \(21 citations\)](#)

want to query. Each datacube has a datacube **directory service** (DS) which lists all dataflocks registered in larger datacubes will invariably involve **aggregation**. For example, a query inquiring information is that different queries require different **aggregation** functions. How does a broker know which [cereal.rutgers.edu/~gsamir/papers/dataspace-ieee-pcm.pdf](http://cereal.rutgers.edu/~gsamir/papers/dataspace-ieee-pcm.pdf)

[Range-Free Localization Schemes for Large Scale.. - He, Huang, Blum.. \(2003\) \(Correct\) \(18 citations\)](#)

location based services such as the location **directory service** [19] and Sensing Coverage [20] In addition be masked through fault tolerance, redundancy, **aggregation**, or by other means. Depending on the behavior 1) Beacon exchange, 2) PIT Testing, 3) APIT **aggregation** and 4) COG calculation. These steps are [www.cs.virginia.edu/~th7c/paper/APIT\\_CS-2003-06.pdf](http://www.cs.virginia.edu/~th7c/paper/APIT_CS-2003-06.pdf)

[QoS-Aware Discovery of Wide-Area Distributed Services - Xu, Nahrstedt, Wichadakul \(2001\) \(Correct\) \(7 citations\)](#)

as a scalable approach to wide-area **service directory** organization and management [2, 10, 11, are two key issues in the mechanism: 1) lossy **aggregation** of service ads as they are propagated up in (routing) in the DS hierarchy. Lossy **aggregation** of service ads involves the summarization of [cairo.cs.uiuc.edu/papers/CCGrid2001.ps](http://cairo.cs.uiuc.edu/papers/CCGrid2001.ps)

[Swift: A Storage Architecture for Large Objects - Luis-Felipe Cabrera Computer \(1991\) \(Correct\) \(6 citations\)](#)

agents and is responsible for providing **directory services**, authentication, enforcing access control, implementation. Both studies indicate that the **aggregation** principle proposed in Swift can yield very device, making all applications unaware of this **aggregation**. In our scheme the maximum data-rate of [ftp.cse.ucsc.edu/pub/tr/ucsc-crl-91-19.ps.Z](http://ftp.cse.ucsc.edu/pub/tr/ucsc-crl-91-19.ps.Z)

[An Architecture for Transport Layer Transparent Support for.. - Rekhter \(1993\) \(Correct\) \(6 citations\)](#)

is usually maintained by a conventional **directory service** (e.g. DNS, X.500) Since forwarding to a unfeasible. Scalable routing is achieved by **aggregation** of routing information, and particularly of routing information, and particularly **aggregation** of information about host addresses. Providing [ftp.das.harvard.edu/pub/cs96-1993/ibm-mobile-architecture.ps](http://ftp.das.harvard.edu/pub/cs96-1993/ibm-mobile-architecture.ps)

[An Object-Oriented Multimedia Database System for a.. - Vittal \(1995\) \(Correct\) \(4 citations\)](#)

database" often refers to a centralized **directory service** for data stored in various file systems. specialization/generalization, and **aggregation** hierarchies) that need to be modeled [WKL86, specialization/generalization and **aggregation** relationships between multimedia objects have [menaik.cs.ualberta.ca/pub/TechReports/1995/TR95-14/TR95-14.ps.Z](http://menaik.cs.ualberta.ca/pub/TechReports/1995/TR95-14/TR95-14.ps.Z)

[Internet Access to a Home Area Network - Saif, Gordon, Greaves \(2001\) \(Correct\) \(3 citations\)](#)

by name or attribute list. Unlike relational **directory services**, DHan's XML-based information model allows

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[Online Aggregation - Hellerstein, Haas, Wang \(1997\)](#) (Correct) (135 citations)

In this paper we propose a new online **aggregation interface** that permits users to both observe the 1997, Tucson, Arizona. Figure 1: An online **aggregation interface** for Query 1. approximation might be background. As discussed below, the online **aggregation interface** described here goes well beyond merely [db.cs.berkeley.edu/papers/sigmod97-online.ps.Z](http://db.cs.berkeley.edu/papers/sigmod97-online.ps.Z)

[Supporting Aggregate Queries Over Ad-Hoc Wireless Sensor.. - Samuel Madden Robert \(2002\)](#) (Correct) (37 citations)

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[Simple Ownership Types for Object Containment - Clarke, Noble, Potter \(2001\)](#) (Correct) (36 citations)

programs using the CSTL) and COM-style **interface aggregation**. We extend the imperative object calculus [www.cs.uu.nl/~dave/papers/ecoop2001.ps.gz](http://www.cs.uu.nl/~dave/papers/ecoop2001.ps.gz)

[Large-Sample and Deterministic Confidence Intervals for Online.. - Haas \(1996\)](#) (Correct) (13 citations)

with painstaking Figure 1: An online **aggregation interface**. precision, even in situations where an BY major 1.1) A prototype of an online **aggregation interface** for this query is displayed in Figure 1. As can be seen from the figure, an online **aggregation interface** is a more flexible and satisfying [epoch.cs.berkeley.edu:8000/control/online/lisd.ps](http://epoch.cs.berkeley.edu:8000/control/online/lisd.ps)

[An Adaptive Object-oriented Approach to Integration and Access of.. - Liu, Pu \(1997\)](#) (Correct) (7 citations)

by re#nement of existing interfaces through **interface aggregation**, interface generalization, or import and is to encourage consumers to use the DIOM **interface aggregation** abstraction meta operation to establish of existing interfaces through **interface aggregation**, interface generalization, or import and hide meta [www.cc.gatech.edu/projects/dis/CQ/papers/ling-padb.pdf](http://www.cc.gatech.edu/projects/dis/CQ/papers/ling-padb.pdf)

[An Adaptive Object-oriented Approach to Integration and Access.. - Ling Liu \(1997\)](#) (Correct) (7 citations)

refinement of existing interfaces through **interface aggregation**, interface generalization, or import and is to encourage consumers to use the DIOM **interface aggregation** abstraction meta operation to establish of existing interfaces through **interface aggregation**, interface generalization, or import and hide meta [www.cse.ogi.edu/DISC/projects/tactix/DIOM/online\\_pub/papers/ling-padb.ps](http://www.cse.ogi.edu/DISC/projects/tactix/DIOM/online_pub/papers/ling-padb.ps)

[Reuse and Inheritance in Distributed Object Systems - Gründer, Geihs \(1996\)](#) (Correct) (2 citations)

It offers its service at an aggregated **interface**. **Aggregation** is a special case of delegation, and both [www.vsb.cs.uni-frankfurt.de/pub/papers/1996/vv\\_eng.ps.gz](http://www.vsb.cs.uni-frankfurt.de/pub/papers/1996/vv_eng.ps.gz)

[A Summary of Grid Computing Environments - Geoffrey Fox Dennis \(2002\)](#) (Correct) (1 citation)

toolkit supporting this [47] This user **interface aggregation** is often supported by a GCE. This [grids.ucs.indiana.edu/ptliupages/publications/gcesurvey.pdf](http://grids.ucs.indiana.edu/ptliupages/publications/gcesurvey.pdf)

[Online Processing Redux - Hellerstein](#) (Correct) (1 citation)

1: A Speed-Controllable Multi-Group Online **Aggregation Interface** 2.1 Online Aggregation Aggregation relative rates. The Online **Aggregation interface** in Figure 1 bases its "speed" buttons on [epoch.cs.berkeley.edu:8000/control/online/debull97.ps](http://epoch.cs.berkeley.edu:8000/control/online/debull97.ps)

[A Java-based Smart Object Model for use in - Digital Learning Environments](#) (Correct)

55 Figure 5.3. Content Aggregation